

21570

# Cassette auto radio 22DC 570/00

Service  
Service  
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22DC 670/00

For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY  
Tel: 01844-351694 Fax: 01844-352554  
Email: enquiries@mauritron.co.uk

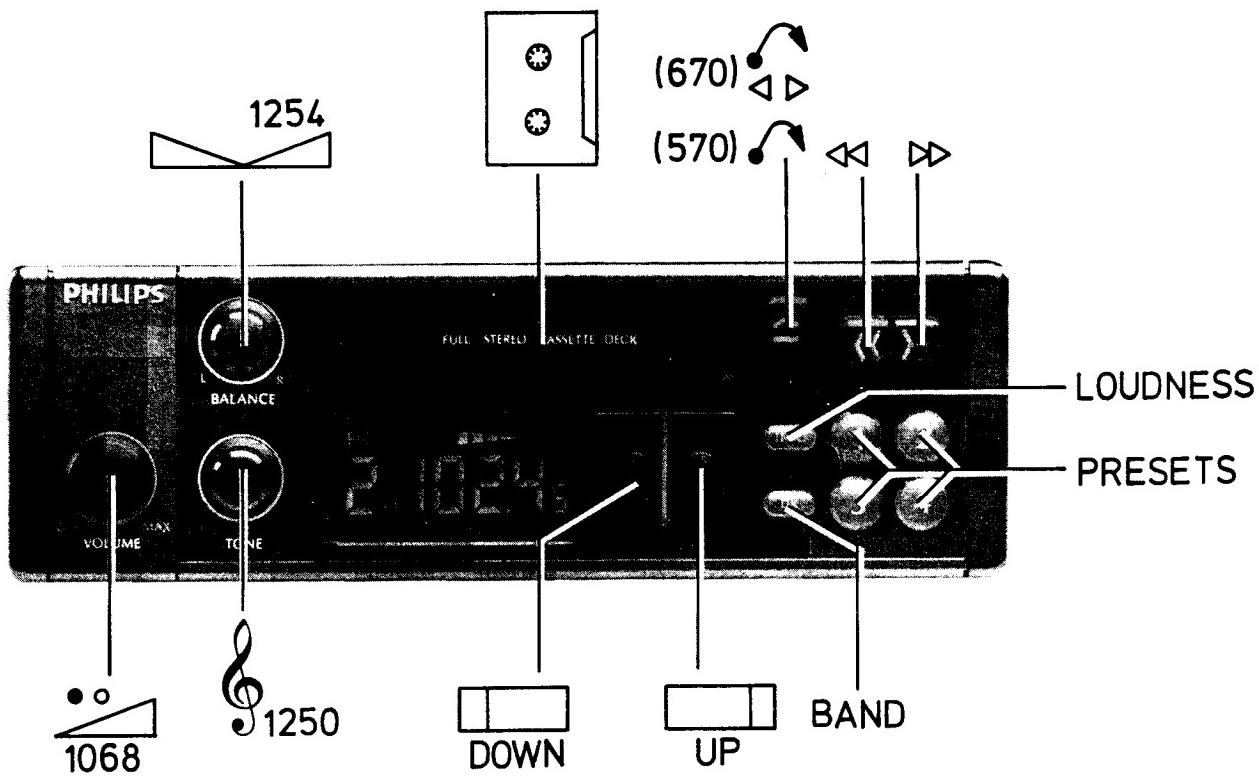
+ R 570

R 670

12171

# Service Manual

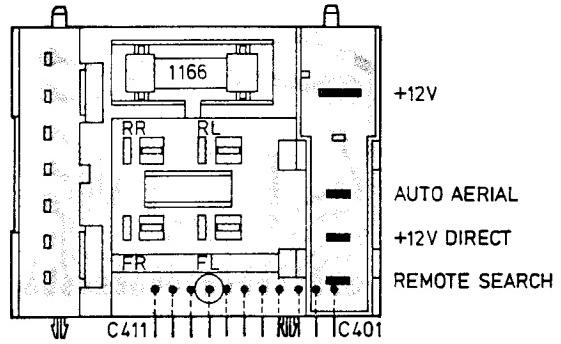
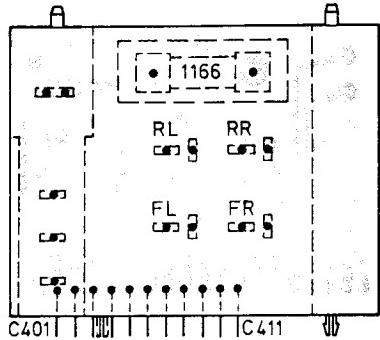
12 V 



43 029 A12

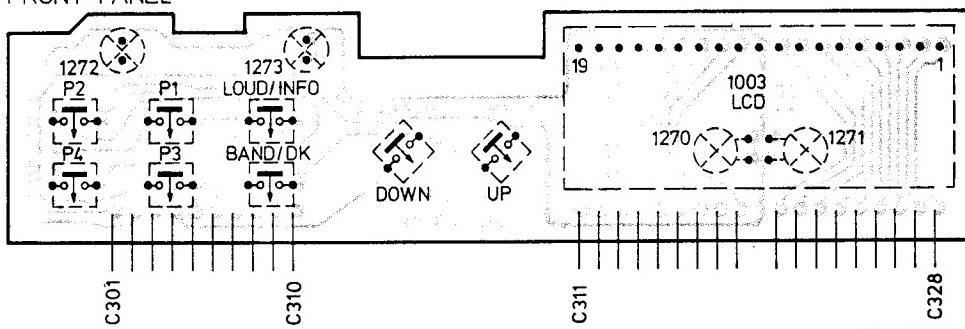
## 1053 CONNECTING BLOCK P.B. ASSY

C401 = REMOTE SEARCH  
 C402 = +12V SWITCHED  
 C403 = +12V DIRECT  
 C404 = N.C.  
 C405 = AUTO.AERIAL  
 C406 = +FL  
 C407 = -L  
 C408 = +RL  
 C409 = -R  
 C410 = +FR  
 C411 = +RR



42 829 B12

FRONT PANEL



43 026 B12

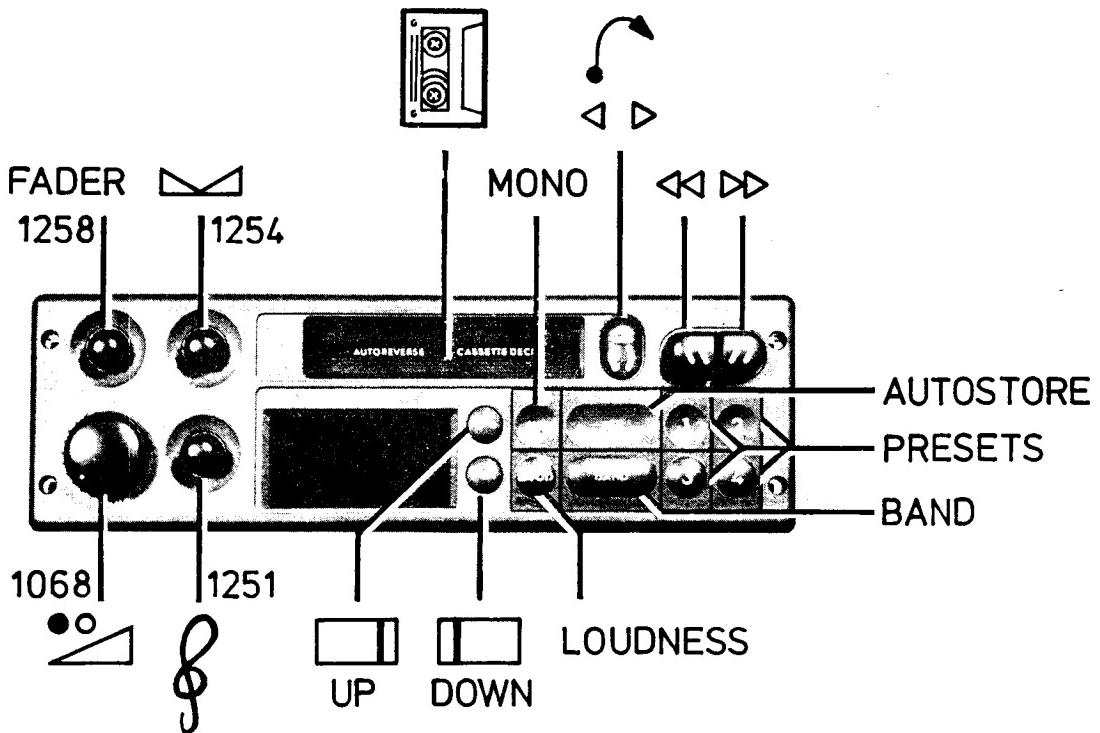
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22DC670/60/60E

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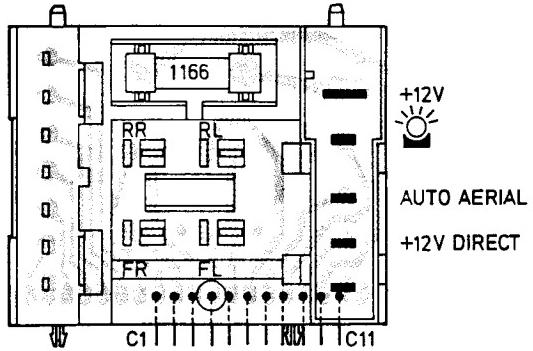
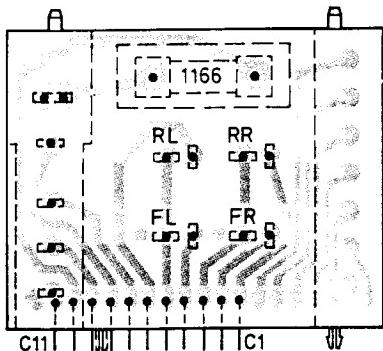
12 V 



44 254 A11

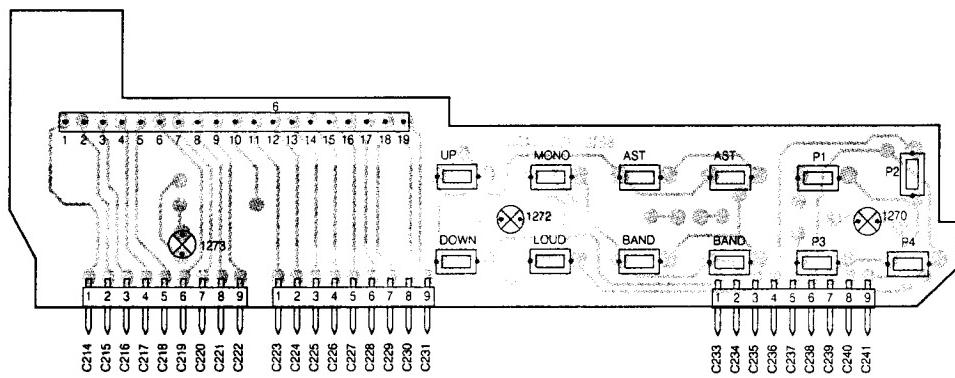
# 1053 CONNECTING BLOCK P.B. ASSY

C11 = N.C.  
 C10 = +12V SWITCHED  
 C9 = +12V DIRECT  
 C8 = EXT. ILL.  
 C7 = AUTO.AERIAL  
 C4 = +FL  
 C5 = -L  
 C6 = +RL  
 C3 = -R  
 C2 = +FR  
 C1 = +RR



44 215 B11

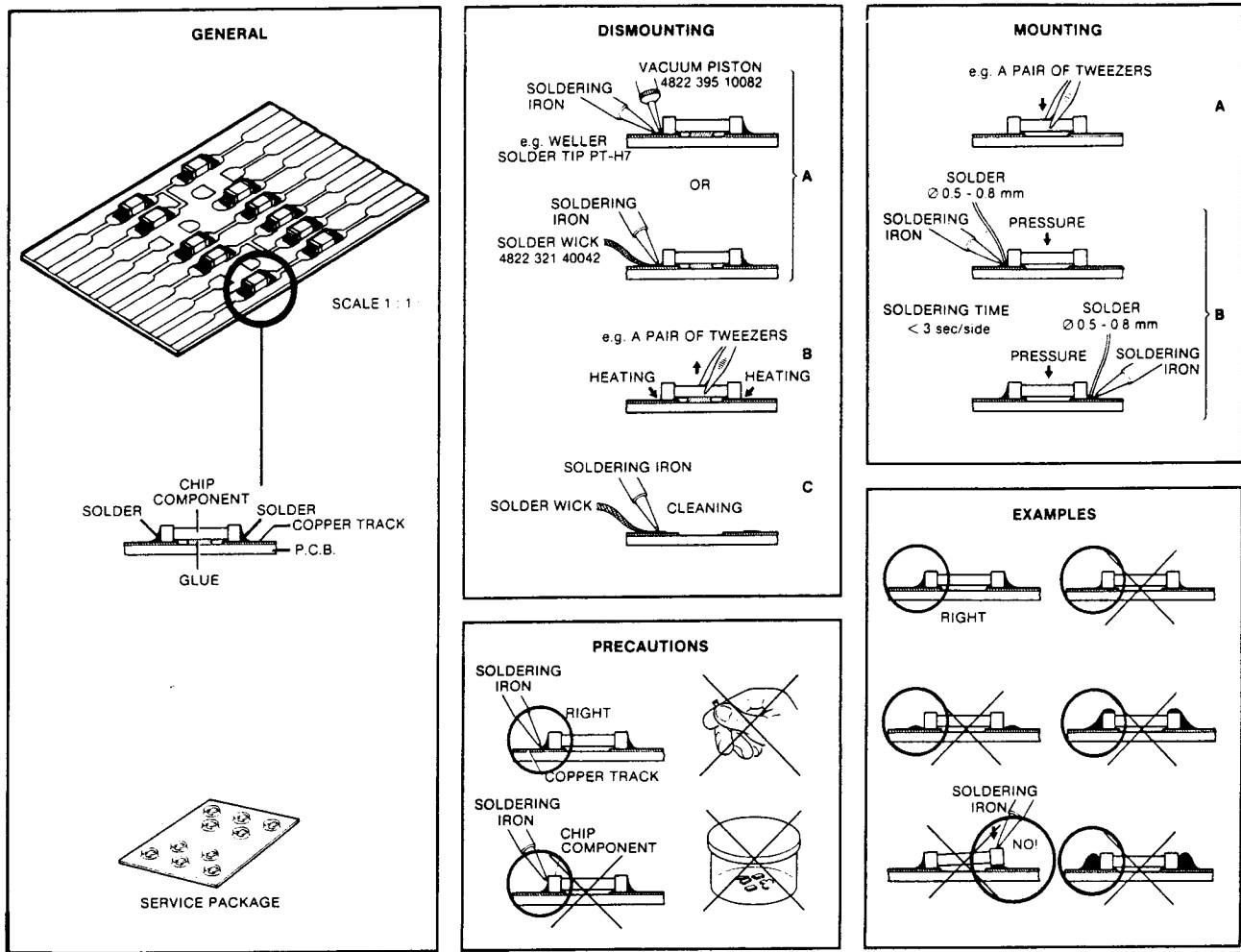
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PCB.01231  
T27-638

- MISCELLANEOUS -				- II -				
1055	IAC-Thifi	4822 214 51676	2166	100nF	20%	50V	4822 122 33104	
1056	SDK-Thifi	4822 214 51674	2168	100nF	20%	50V	4822 122 33104	
1057	STEREO DEC. Thifi	4822 214 51677	2172	100nF	20%	50V	4822 122 33104	
1059	Cer.Filter 10.7 MHz	4822 242 71889	2178	2200µF		10V	4822 124 41452	
1060	Cer.Filter 10.7 MHz	4822 242 71889	2180	2200µF		10V	4822 124 41452	
1061	Crystal 4 MHz	4822 242 71881	2186	100nF	20%	50V	4822 122 33104	
1062	Crystal 4 MHz	4822 242 71882	2187	100nF	20%	50V	4822 122 33104	
1064	Cer.Filter 10.7 MHz	4822 242 71883	2192	33 pF		50V	4822 122 33215	
1065	Cer.Filter 10.7 MHz	4822 242 71883	2193	33 pF		50V	4822 122 33215	
1068	Potm.Volume 2X50kΩ	4822 102 40082	2196	2200µF		16V	4822 124 22412	
1166	Fuse 2.5A(T)	4822 253 30026	2201	100pF	20%	50V	4822 122 33104	
1250/1251	Potm.Tone 2X100kΩ	4822 102 30462	2204	2.2µF		40V	4822 124 20706	
1254	Potm.Balance 100kΩ	4822 100 20663	2206	4.7nF		50V	4822 122 33217	
1270÷1274	Lamp 14V-40mA	4822 134 40855	2208	4.7nF		50V	4822 122 33217	
<b>- II -</b>				<b>[ ]</b>				
2050	100nF	20% 50V	4822 122 33104	3050	1k		4822 111 91516	
2051	47 nF		4822 122 33211	3051	330Ω		4822 111 91501	
2055	100nF	20% 50V	4822 122 33104	3052	10E		4822 111 91519	
2056	10 nF		4822 122 31728	3053	10k Trimpotmeter		4822 100 20166	
2057	47 nF		4822 122 33211	3054	2k7		4822 111 91525	
2061	2.2µF	40V	4822 124 20706	3055	10k Trimpotmeter		4822 100 20166	
2062	150pF		4822 122 33181	3056	4k7		4822 111 91532	
2063	270pF		4822 122 33216	3057	750E		4822 111 91505	
2064	220nF	20% 50V	4822 122 32916	3060	10E		4822 111 91519	
2068	220nF	20% 50V	4822 122 32916	3061	3k3		4822 111 91526	
2070	390pF	20% 50V	4822 122 33172	3064	39k		4822 111 91528	
2074	220nF	20% 50V	4822 122 32916	3065	2k2		4822 111 91522	
2076	220nF	20% 50V	4822 122 32916	3067	620k		4822 111 91503	
2083	27 pF		4822 122 33214	3068	10E		4822 111 91519	
2088	10 pF		4822 122 33212	3069	3k9		4822 111 91527	
2089	33 pF	20% 50V	4822 122 33215	3070	8k2		4822 111 91507	
2090	270pF	20% 50V	4822 122 33216	3072	22k		4822 111 91523	
2091	270pF	20% 50V	4822 122 33216	3073	15k		4822 111 91498	
2092	10 nF	20% 50V	4822 122 33177	3074	1k		4822 111 91516	
2097	220nF	20% 50V	4822 122 32916	3075	10k		4822 111 91517	
2099	150pF	50V	4822 122 33222	3076	2k7		4822 111 91525	
2106	100nF	20% 50V	4822 122 33104	3077	330E		4822 111 91501	
2109	22 pF	50V	4822 122 33213	3079	39k		4822 111 91528	
2110	100nF	20% 50V	4822 122 33104	3080	39k		4822 111 91528	
2114	4.7nF	50V	4822 122 33217	3082	91E		4822 111 91508	
2115	3.3nF	50V	4822 122 33219	3083	2k2		4822 111 91522	
2118	2200µF	6.3V	4822 124 41453	3084	39k		4822 111 91528	
2120	10 pF	50V	4822 122 33212	3086	560E		4822 111 91533	
2121	10 pF	50V	4822 122 33212	3087	470E		4822 111 91531	
2122	820pF	50V	4822 122 33218	3090	4k7		4822 111 91532	
2123	820pF	50V	4822 122 33218	3091	220k		4822 111 91524	
2125	820pF	50V	4822 122 33218	3095	1k		4822 111 91516	
2126	820pF	50V	4822 122 33218	3096	1k		4822 111 91516	
2132	2.7nF	50V	4822 122 33176	3099	22k		4822 111 91523	
2133	2.7nF	50V	4822 122 33176	3100	220k		4822 111 91524	
2134	220nF	20% 50V	4822 122 32916	3104	18k		4822 111 91521	
2135	220nF	20% 50V	4822 122 32916	3105	18k		4822 111 91521	
2136	100nF	20% 50V	4822 122 33104	3106	1k		4822 111 91516	
2140	220µF	10V	4822 124 22409	3107	39k		4822 111 91528	
2141	5.6nF	50V	4822 122 33221	3108	10k		4822 111 91517	
2142	5.6nF	50V	4822 122 33221	3110	470E		4822 111 91531	
2150	220nF	20% 50V	4822 122 32916	3111	470E		4822 111 91531	
2151	220nF	20% 50V	4822 122 32916	3112	390k		4822 111 91529	
2156	1.8nF	50V	4822 122 33144	3113	390k		4822 111 91529	
2157	1.8nF	50V	4822 122 33144	3116	1M		4822 111 91509	
2158	100nF	50V	4822 122 33209					
2162	820pF	50V	4822 122 33218					
2164	820pF	50V	4822 122 33218					

© -II- Chips 50 V NP0 S1206			© -II- Chips 0,125 W S1206			© -II- Chips 0,125 W S1206			1U
1 pF	5%	4822 122 32479	4,7 E	5%	5322 111 90376	6,8 k	2%	4822 111 90544	
1,2 pF	5%	4822 122 33013	5,1 E	5%	4822 111 90393	7,5 k	2%	4822 111 90276	
1,5 pF	5%	4822 122 31792	5,6 E	5%	4822 111 90394	8,2 k	2%	5322 111 90118	
1,8 pF	5%	4822 122 32087	6,2 E	5%	4822 111 90395	9,1 k	2%	4822 111 90373	
2,2 pF	5%	4822 122 32425	6,8 E	5%	4822 111 90254	10 k	2%	4822 111 90249	
3,3 pF	5%	4822 122 32079	7,5 E	5%	4822 111 90396	11 k	2%	4822 111 90337	
3,9 pF	5%	4822 122 32081	8,2 E	5%	4822 111 90397	12 k	2%	4822 111 90253	
4,7 pF	5%	4822 122 32082	9,1 E	5%	4822 111 90398	13 k	2%	4822 111 90509	
5,6 pF	5%	4822 122 32506	10 E	2%	5322 111 90095	15 k	2%	4822 111 90196	
6,8 pF	5%	4822 122 32507	11 E	2%	4822 111 90338	16 k	2%	4822 111 90346	
8,2 pF	5%	4822 122 32083	12 E	2%	4822 111 90341	18 k	2%	4822 111 90238	
10 pF	5%	4822 122 31971	13 E	2%	4822 111 90343	20 k	2%	4822 111 90349	
12 pF	5%	4822 122 32139	15 E	2%	4822 111 90344	22 k	2%	4822 111 90251	
15 pF	5%	4822 122 32504	16 E	2%	4822 111 90347	24 k	2%	4822 111 90512	
18 pF	5%	4822 122 31769	18 E	2%	5322 111 90139	27 k	2%	4822 111 90542	
22 pF	10%	4822 122 31837	20 E	2%	4822 111 90352	30 k	2%	4822 111 90216	
27 pF	5%	4822 122 31966	22 E	2%	4822 111 90186	33 k	2%	5322 111 90267	
33 pF	5%	4822 122 31756	24 E	2%	4822 111 90355	36 k	2%	4822 111 90514	
39 pF	5%	4822 122 31972	27 E	2%	5322 111 90105	39 k	2%	5322 111 90108	
47 pF	5%	4822 122 31772	30 E	2%	4822 111 90356	43 k	2%	4822 111 90363	
56 pF	5%	4822 122 31774	33 E	2%	4822 111 90357	47 k	2%	4822 111 90543	
68 pF	5%	4822 122 31961	36 E	2%	4822 111 90359	51 k	2%	5322 111 90274	
82 pF	10%	4822 122 31839	39 E	2%	4822 111 90361	56 k	2%	4822 111 90573	
100 pF	5%	4822 122 31765	43 E	2%	5322 116 90125	62 k	2%	5322 111 90275	
120 pF	5%	4822 122 31766	47 E	2%	4822 111 90217	68 k	2%	4822 111 90202	
150 pF	5%	4822 122 31767	51 E	2%	4822 111 90365	75 k	2%	4822 111 90574	
180 pF	2%	4822 122 31794	56 E	2%	4822 111 90239	82 k	2%	4822 111 90575	
220 pF	5%	4822 122 31965	62 E	2%	4822 111 90367	91 k	2%	5322 111 90277	
270 pF	5%	4822 122 32142	68 E	2%	4822 111 90203	100 k	2%	4822 111 90214	
330 pF	10%	4822 122 31642	75 E	2%	4822 111 90371	110 k	2%	5322 111 90269	
390 pF	5%	4822 122 31771	82 E	2%	4822 111 90124	120 k	2%	4822 111 90568	
470 pF	5%	4822 122 31727	91 E	2%	4822 111 90375	130 k	2%	4822 111 90511	
560 pF	5%	4822 122 31773	100 E	2%	5322 111 90091	150 k	2%	5322 111 90099	
680 pF	5%	4822 122 31775	110 E	2%	4822 111 90335	160 k	2%	5322 111 90264	
820 pF	5%	4822 122 31974	120 E	2%	4822 111 90339	180 k	2%	4822 111 90565	
1 nF	10%	5322 122 31647	130 E	2%	4822 111 90164	200 k	2%	4822 111 90351	
1,2 nF	5%	4822 122 31807	150 E	2%	5322 111 90098	220 k	2%	4822 111 90197	
1,5 nF	10%	4822 122 31781	160 E	2%	4822 111 90345	240 k	2%	4822 111 90215	
1,8 nF	10%	4822 122 32153	180 E	2%	5322 111 90242	270 k	2%	4822 111 90302	
2,2 nF	10%	4822 122 31644	200 E	2%	4822 111 90348	300 k	2%	5322 111 90266	
2,7 nF	10%	4822 122 31783	220 E	2%	4822 111 90178	330 k	2%	4822 111 90513	
3,3 nF	10%	4822 122 31969	240 E	2%	4822 111 90353	360 k	2%	4822 111 90515	
3,9 nF	10%	4822 122 32566	270 E	2%	4822 111 90154	390 k	2%	4822 111 90182	
4,7 nF	10%	4822 122 31784	300 E	2%	4822 111 90156	430 k	2%	4822 111 90168	
5,6 nF	10%	4822 122 31916	330 E	2%	5322 111 90106	470 k	2%	4822 111 90161	
6,8 nF	10%	4822 122 31976	360 E	1%	4822 111 90288	510 k	2%	4822 111 90364	
10 nF	10%	4822 122 31728	360 E	2%	4822 111 90358	560 k	2%	4822 111 90169	
12 nF	10%	5322 122 31648	390 E	2%	5322 111 90138	620 k	2%	4822 111 90213	
15 nF	10%	4822 122 31782	430 E	2%	4822 111 90362	680 k	2%	4822 111 90368	
18 nF	10%	4822 122 31759	470 E	2%	5322 111 90109	750 k	2%	4822 111 90369	
22 nF	10%	4822 122 31797	510 E	2%	4822 111 90245	820 k	2%	4822 111 90205	
27 nF	10%	4822 122 32541	560 E	2%	5322 111 90113	910 k	2%	4822 111 90374	
33 nF	10%	4822 122 31981	620 E	2%	4822 111 90366	1 M	2%	4822 111 90252	
47 nF	10%	4822 122 32542	680 E	2%	4822 111 90162	1,1 M	5%	4822 111 90408	
56 nF	10%	4822 122 32183	750 E	2%	5322 111 90306	1,2 M	5%	4822 111 90409	
100 nF	10%	4822 122 31947	820 E	2%	4822 111 90171	1,3 M	5%	4822 111 90411	
180 nF	10%	4822 122 32915	910 E	2%	4822 111 90372	1,5 M	5%	4822 111 90412	
220 nF	20%	4822 122 32715	1 k	2%	5322 111 90092	1,6 M	5%	4822 111 90413	
© -II- Chips 0,125 W S1206 NP0			1,1 k	2%	4822 111 90336	1,8 M	5%	4822 111 90414	
© -II- Chips 0,125 W S1206 NP0			1,2 k	2%	5322 111 90096	2 M	5%	4822 111 90415	
© -II- Chips 0,125 W S1206 NP0			1,3 k	2%	4822 111 90244	2,2 M	5%	4822 111 90185	
0 E	jumper	4822 111 90163	1,5 k	2%	4822 111 90151	2,4 M	5%	4822 111 90416	
1 E	5%	4822 111 90184	1,6 k	2%	5322 111 90265	2,7 M	5%	4822 111 90417	
1,1 E	5%	4822 111 90377	1,8 k	2%	5322 111 90101	3 M	5%	4822 111 90418	
1,2 E	5%	4822 111 90378	2 k	2%	4822 111 90165	3,3 M	5%	4822 111 90191	
1,3 E	5%	4822 111 90379	2,2 k	2%	4822 111 90248	3,6 M	5%	4822 111 90419	
1,5 E	5%	4822 111 90381	2,4 k	2%	4822 111 90289	3,9 M	5%	4822 111 90421	
1,6 E	5%	4822 111 90382	2,7 k	2%	4822 111 90569	4,3 M	5%	4822 111 90422	
1,8 E	5%	4822 111 90383	3 k	2%	4822 111 90198	4,7 M	5%	4822 111 90423	
2 E	5%	4822 111 90384	3,3 k	2%	4822 111 90157	5,1 M	5%	4822 111 90424	
2,2 E	5%	5322 111 90104	3,6 k	2%	5322 111 90107	5,6 M	5%	4822 111 90425	
2,4 E	5%	4822 111 90385	3,9 k	2%	4822 111 90571	6,2 M	5%	4822 111 90426	
2,7 E	5%	4822 111 90386	4,3 k	2%	4822 111 90167	6,8 M	5%	4822 111 90235	
3 E	5%	4822 111 90387	4,7 k	2%	5322 111 90111	7,5 M	5%	4822 111 90427	
3,3 E	5%	4822 111 90388	5,1 k	2%	5322 111 90268	8,2 M	5%	4822 111 90237	
3,6 E	5%	4822 111 90389	5,6 k	2%	4822 111 90572	9,1 M	5%	4822 111 90428	
3,9 E	5%	4822 111 90390							



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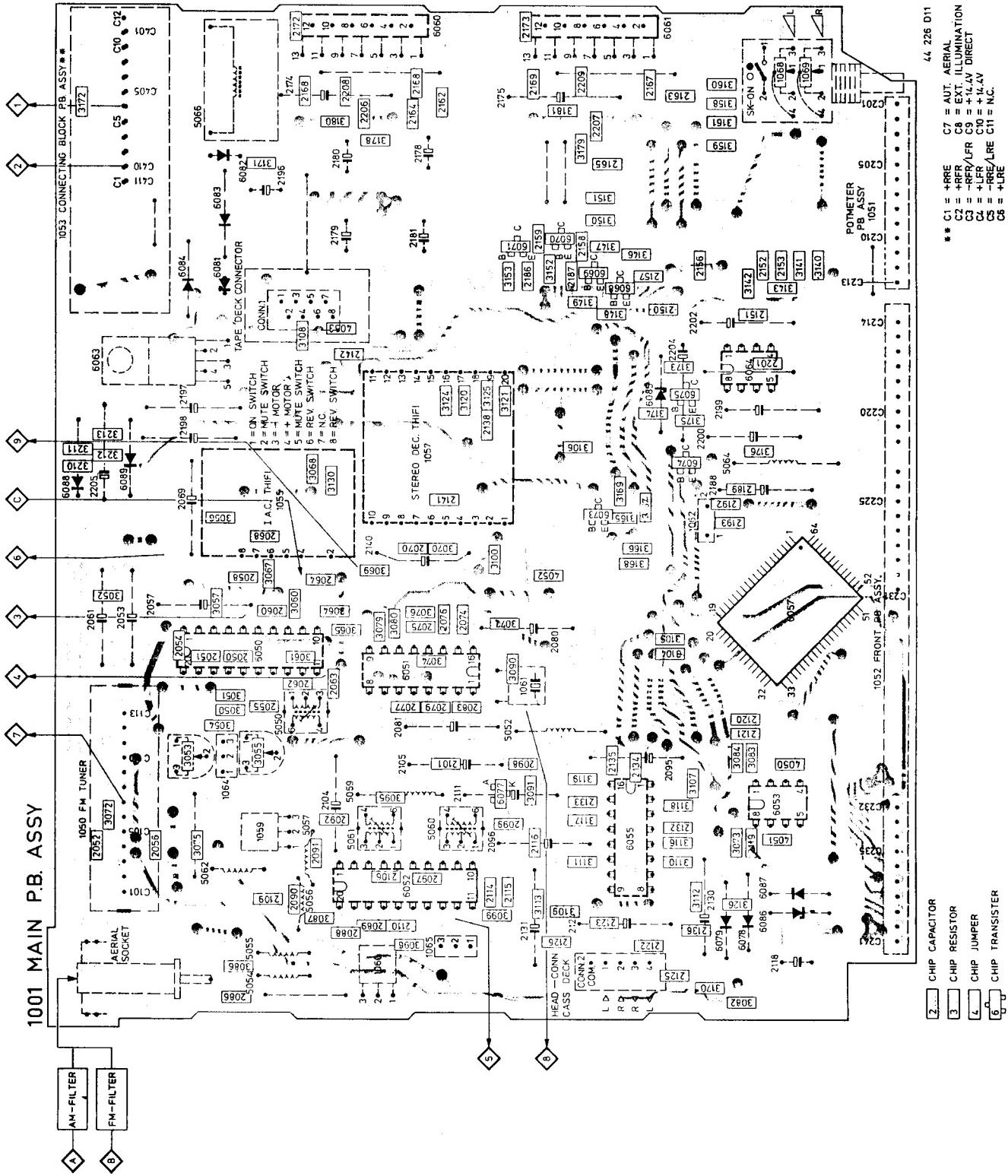
<p>Carbon film 0.2 W 70°C 5%</p> <p>Carbon film 0.33 W 70°C 5%</p> <p>Metal film 0.33 W 70°C 5%</p> <p>Carbon film 0.5 W 70°C 5%</p> <p>Carbon film 0.67 W 70°C 5%</p> <p>Carbon film 1.15 W 70°C 5%</p>	<p>Ceramic plate Tuning ≤ 120 pF NP.0 2% Others -20/+80%</p> <p>Polyester flat foil 10%</p> <p>Metalized polyester flat film 10%</p> <p>Polyester flat foil small size (Mylar) 10%</p> <p>Polystyrene film/foil 1%</p> <p>Tubular ceramic</p> <p>Miniature single</p> <p>Subminiature tantalum ± 20%</p>	<p>*a = 2.5 V b = 4 V c = 6.3 V d = 10 V e = 16 V f = 25 V g = 40 V h = 63 V j = 100 V l = 125 V m = 150 V n = 160 V q = 200 V r = 250 V s = 300 V t = 350 V u = 400 V v = 500 V w = 630 V x = 1000 V A = 1.6 V B = 6 V C = 12 V D = 15 V E = 20 V F = 35 V G = 50 V H = 75 V I = 80 V</p>
<p>(C) Chip component</p>		

27 037A/C

3117	1M	4822 111 91509	5050
3118	56k	4822 111 91535	5052
3119	56k	4822 111 91535	5054
3120	56k	4822 111 91535	5055
3121	56k	4822 111 91535	5056
3124	2M2	4822 111 91511	5057
3125	2M2	4822 111 91511	5059
3126	39k	4822 111 91528	5060
3130	390k	4822 111 91502	5061
3140	2K7	4822 111 91525	5062
3141	2k7	4822 111 91525	5064
3142	10k	4822 111 91517	5066
3143	10k	4822 111 91517	
3146	15k	4822 111 91498	
3147	15k	4822 111 91498	
3148	100k	4822 111 91518	
3149	100k	4822 111 91518	BAX14
3150	3k3	4822 111 91526	BAX18
3151	3k3	4822 111 91526	BBY40
3152	100k	4822 111 91518	BZX79/B5V1
3153	100k	4822 111 91518	BZX79/B5V6
3158	5k6	4822 111 91534	BZX79/C4V7
3159	5k6	4822 111 91534	1N4002
3160	5k6	4822 111 91534	1N4148
3161	5k6	4822 111 91534	
3165	100k	4822 111 91518	
3166	100k	4822 111 91518	
3167	100k	4822 111 91518	
3168	100k	4822 111 91518	
3169	100k	4822 111 91518	
3170	75E	4822 111 91506	
3171	270E	4822 111 91499	
3172	270E	4822 111 91499	6050 TEA6100
3173	100k	4822 111 91518	6051 TSA6057
3174	100k	4822 111 91518	6052 TEA6200
3175	10k	4822 111 91517	6053 M8571B6
3176	10k	4822 111 91517	6055 TA7705P
3177	680E	4822 111 91504	6057 TMP47C421AF
3178	4E7	4822 116 80464	6060 TDA1518Q
3180	4E7	4822 116 80464	6063 L4918
3204	22k	4822 111 91523	6064 L4904
4050	0E	4822 111 91536	
4051	0E	4822 111 91536	

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 8 Cherry Tree Rd, Chinnor  
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 Tel:- 01844-351694 Fax:- 01844-352554  
 Email:- [enquiries@mauritron.co.uk](mailto:enquiries@mauritron.co.uk)

1001 MAIN P.B. ASSY



3 CHIP RESISTOR

4 CHIP JUMPER

כינוסים נאומיים

6 CHIP TRANSISTOR

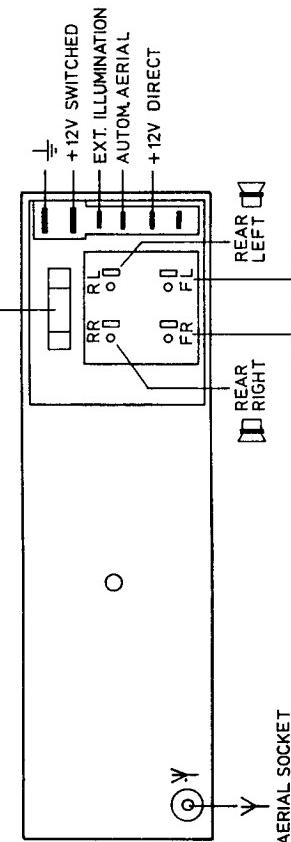
\* ONLY FOR SETS WITH SDK.

C1	= +RRE	C7	= AUT.
C2	= +RRF	C8	= EXT. ILLUMINATION
C3	= -RFR/LFR	C9	= +14.4V DIRECT
C5	= +LFR	C10	= +14.4V
C6	= -RRE/LRE	C11	= NC.
C8	= +LRE		

1166  
FUSE 2.5 AT

## SERVICING HINTS

### SERVICE TEST PROGRAMME



The µC test programme can be called without first entering the security code.

#### µC test

This test is called by turning the set on while keeping the P1 and P2 keys depressed. Besides the RAM, a great number of µC instructions are tested. If no faults occur, a special pattern will be displayed. (See fig. 11)

The test can be stopped by turning the set off.

#### Display test

The display test is called by turning the set on while keeping the P1 and P3 keys depressed. A number of easily recognizable patterns are then displayed in succession. (See figs. 1a to 1h) If you want to make one of the patterns visible for a longer time, you only have to keep the P1 key pressed for the required time.

#### SECURITY CODE

##### General

To reduce the risk of theft, this car radio has a built-in electronic lock. The security code has been entered in the factory and cannot be changed by the customer. The security code consists of four figures varying between "0000" and "9999". The figures are selected by pressing the UP and DOWN keys and are entered by pressing the P1 key. If you enter a wrong code, you will hear an error beep and after 1 minute you will be given a new opportunity to enter the right code. Each time a wrong code is entered, the waiting time is doubled, so 1, 2, 4, 8 etc. with a maximum of 32 minutes.

**Note:** If the set is presented for repair with the security code switched on, and the customer has not stated the right code, the set will not be able to function. Replacing the eeprom by a "non-coded" eeprom and/or replacing the microprocessor will not help in that case.

#### TECHNICAL DATA

##### General

Power supply : 14.4V DC  
Dimensions(wxhxd) : 180x51x150 mm

##### Radio

LW	: 144-238 kHz
MW	: 522-1611 kHz
FM	: 87.5-108 MHz
IF-AM	: 10.7 MHz
IF-FM	: 10.7 MHz
Sensitivity 26 dB S/R	: 160 µV (LW) 110 µV (MW) 4 µV (FM)
Limitation α=3dB	: 15 µV
10 dB crosstalk	: 150 µV

##### Cassette player

Number of tracks	: 2x2
Tape speed	: 4.76 cm/sec
Wow & Flutter	: ≥ 0.35 %
Crosstalk	: ≤ 30 dB

##### Amplifier

Output power (D ≤ 10%)	: 4x5.2W ± 1 dB/4Ω
Loudness	: 7 dB at 100 Hz 6 dB at 10 kHz
Tone control	: -9 dB at 100 Hz -14dB at 10 kHz

## Working

### ACTIVATING THE SECURITY CODE

Proceed as follows:

Switch the set on while pressing the UP key.  
Now you hear a two-tone beep and the protection is activated.

The car radio will signal that the code has been activated by briefly showing in the display the character ".C." at the moment of switching on the radio.

#### ENTRY OF THE CODE

Example: Suppose the code is 4567.

Action	Display	Note
- Switch on	-	-
- Press P1	-	-
- Select UP/DOWN "4"	4	first figure
- Press P1	4-	second figure
- Select UP/DOWN "5"	45	third figure
- Press P1	456	fourth figure
- Select UP/DOWN "7"	4567	confirmation tone
- Press P1	...	

The radio is now on and you can operate the cassette player.

Now that the security code is active, the code should be entered again each time the supply voltage has been interrupted. To indicate that the security code is activated, the display briefly shows the character "C" each time the set is turned on.

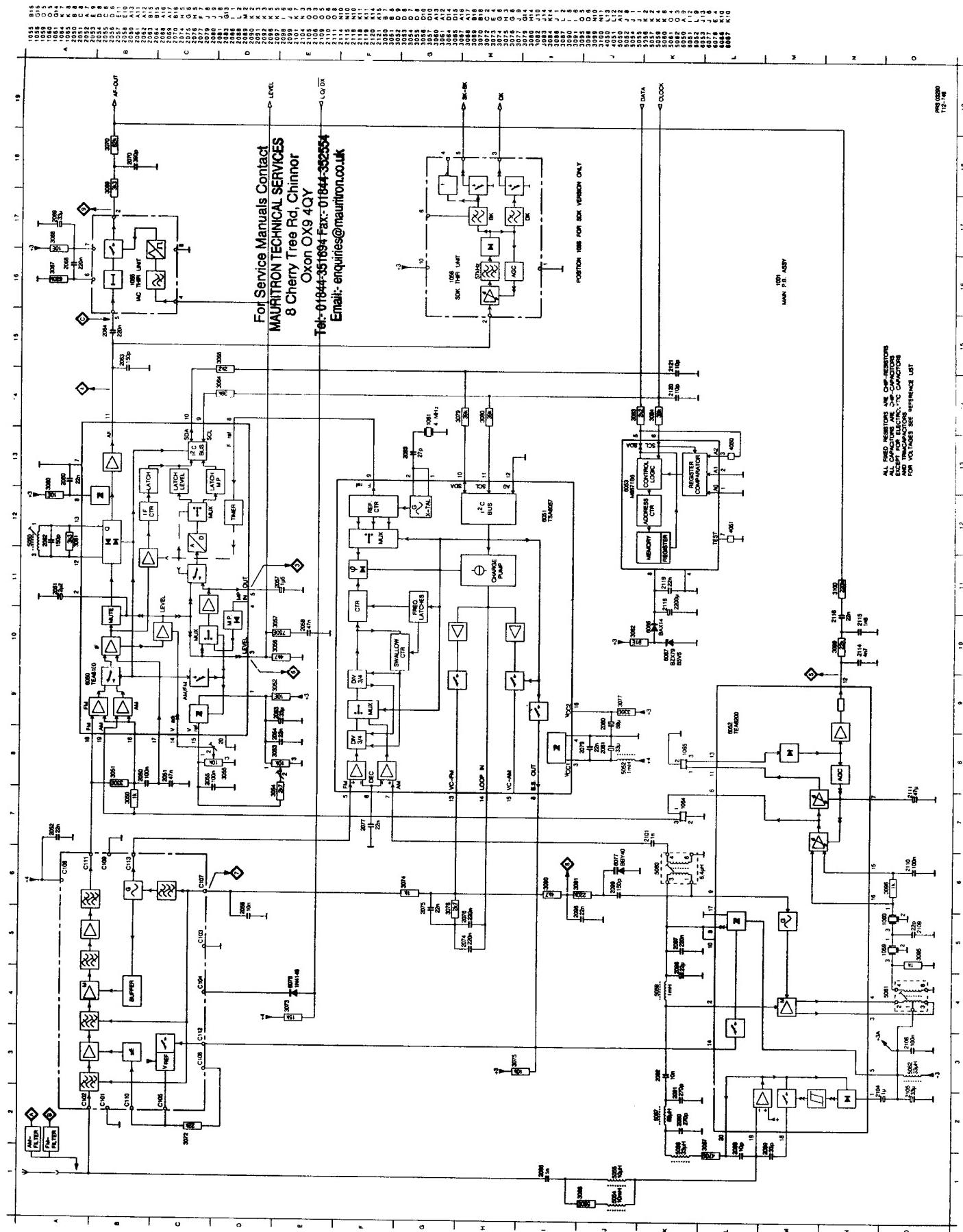
#### SWITCHING THE CODE OFF

Switch the set on while pressing the UP key. The display shows the indication ".C.". Enter the right code in the way described above. Two two-tone squawks confirm that the security code is switched off.

#### ESD

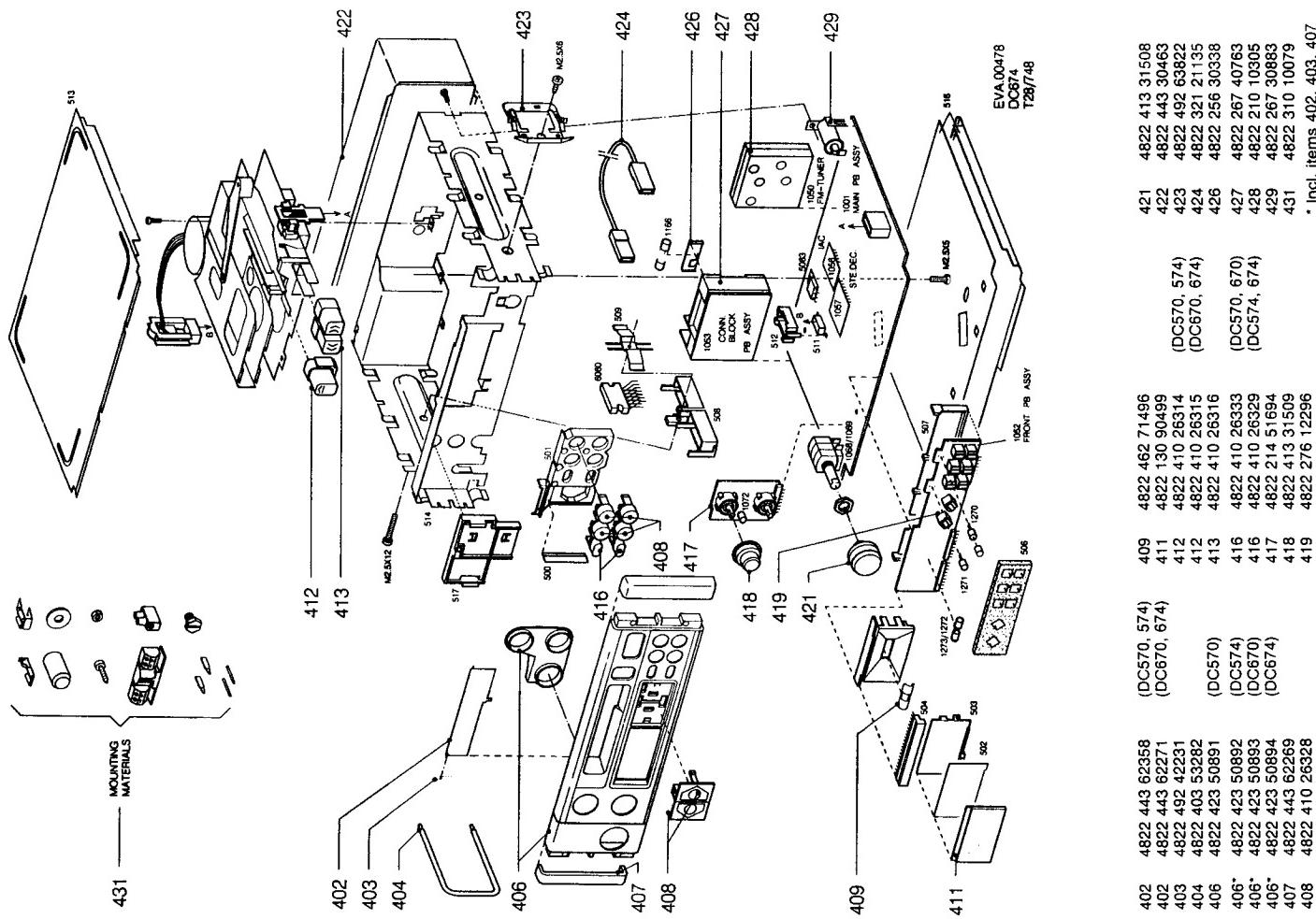
All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce service life drastically. When repairing, make sure that you are connected to the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

For Service Manuals Contact  
**MURITRON TECHNICAL SERVICES**  
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for checking and adjusting see general procedures

Check	SK	—	◇	□	Setting of controls
FM-Mute	FM	93 MHz, 1 mV no signal	◊	□	◊ 0dB (775 mV) -30dB < ◊ < -40dB
26dB-SNR	FM	93 MHz, 4 $\mu$ V $\Delta f = 22.5$ kHz f mod = 1 kHz	◊	□	◊ 0dB (775 mV) ≥ 26dB
		93MHz, 4 $\mu$ V without mod.	◊	□	◊ 0dB (775 mV)
	MW	990 kHz, 110 $\mu$ V 1 kHz, 30% AM	◊	□	◊ 0dB (775 mV)
		990kHz, 110 $\mu$ V without mod.	◊	□	◊ ≥ 26dB
Demodulated FM-levels	FM	93MHz, 1mV $\Delta f = 22.5$ kHz f mod = 1 kHz	◊	□	◊ 200 mV ± 1dB
		93 MHz, 1 mV $\Delta f = 6.75$ kHz f mod = 1 kHz	◊	□	◊ 50 mV ± 1dB
Demodulated FM level	FM	93 MHz, 1 mV $\Delta f = 3.75$ kHz f mod. = 57 kHz	◊	□	◊ 20 mV ± 1 dB
Demodulated AM-level	MW	990 kHz, 1 mV 1kHz, 30% AM	◊	□	◊ 350 mV ± 1dB
Cross talk	FM	93 MHz, 1 mV stereo signal	◊	□	L ◊ 0dB (775 mV) R ◊ 0dB (775 mV)
		93 MHz, 1 mV stereo-R	◊	□	R ◊ - L ◊ ≥ 21dB
SDDS/10dB Cross talk	FM	93 MHz, 1 mV stereo signal	◊	□	L ◊ 0dB (775 mV) R ◊ 0dB (775 mV)
		93 MHz, 150 $\mu$ V stereo-R	◊	□	R ◊ - L ◊ = 10dB
Search level FM	FM	93 MHz, 25 $\mu$ V	◊	□	◊ 2 V-DC
Search level AM	MW	990 kHz, 70 $\mu$ V	◊	□	◊ 1.75 V-DC
	FM				◊ 8.5 MHz 108 MHz
VC-FM					◊ ≥ 1.0 V-DC
VC-AM	LW				◊ ≤ 6.0 V-DC
	MW				◊ ≥ 0.8 V-DC
I.A.C.	FM		◊	□	◊ ≤ 6.0 V-DC
					◊ 25-50 $\mu$ s



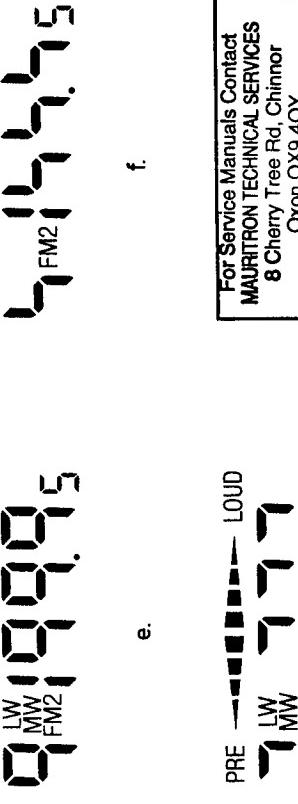
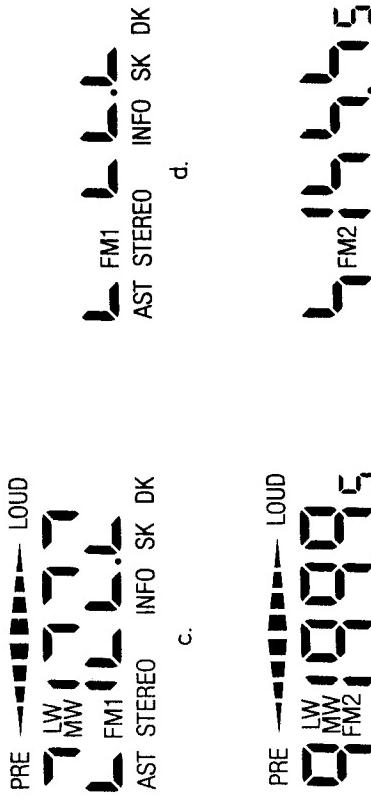
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For adjusting and checking see general procedures

Adjustment	SK	—	◇	□	□	□	□	□	□
Quadrature detector	FM	93 MHz, 10 µV	◊	□	□	5050			via 100 kΩ, 11-15 IC8050 ≤ 100 mV DC
α-3dB	FM	93 MHz, 1 mV Δf = 22.5 kHz f mod = 1 kHz	◊	□	□		—		◆ 0dB (775 mV)
AM-search level	MW	990 kHz, 70 µV	◊	□	□	3055			◆ -3dB
							3053		◆ 1.75 V DC



四



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6

10

60052 TEA6200

any position  
position FM  
position AM  
position play forward  
position play reverse  
position eject

C107= VC-FM MP-7	7 = 0.7V	7 = GND.
C108= 1.4V	8 = 4.0V AM	18= 1.0V AM
C109= GND.	9= 4.0V AM	19= 1.3V AM
	10= 4.0V AM	20= 3.3V AM

C111= 2.9V  
C112= 0.2V  
C113= 1.8V

**6053 MB8571B6**

1 = GND.  
2 = GND.  
3 = GND.

5 = 4.8V(SDA)  
6 = 4.8V(SCL)  
7 = GND

$5 = 4.3V$	$4 = \text{GND.}$	<b>6055 TA705P</b>
$6 = 8.1V$		$1 = 8.5V$
$7 = 8.4V$		$2 = 0.00V \text{ sinet.}$
$8 = \text{GND.}$		$9 = 2.9V$

**FI** 11 - 50V mono  
3 = 0.0V ^ , select 11 = 2.9V  
5.0V <  
4 = N.C 12 = 2.9V  
5 = 2.9V 13 = 2.9V  
6 = 2.9V 14 = N.C

12= N.C	0.0V stereo	1= GND	8 = 3.3V
13= 5.0V muted	0.0V signal	7 = 3.5V	16= 3.3V
14= 0.0V muted	5.0V signal	8 = 3.5V	17= 3.3V
15= 3.5V	3.5V	9 = 6.6V	18= 3.3V
16= 3.5V	3.5V	10= 14.4V	
17= 3.5V	3.5V	11= 14.4V	
18= 3.5V	3.5V	12= 6.6V	
		13= 2.2V	
		14= 14.4V	
		15= 6.6V	
		16= 3.3V	

20 = 3.5V  
I = 3A.

$$1 = 14.4V$$

$1 = 4.6V$	$2 = 4.6V$	$3 = \text{GND.}$
$13 = 4.6V$		$4 = \text{GND.}$
		$5 = 8.5V$
$ a $		
$14 = 2.5V$		<b>6064 L4904</b>
$15 = 4.4V$		$1 = 12.7V$
$16 = 4.9V$		$2 = 8.5V$
$17 = 2.9V$		$3 = 5.6V$
$18 = 2.9V$		$4 = \text{GND.}$
$19 = 2.9V$		$5 = \text{N.C.}$
		$6 = 4.2V$
		$7 = 5.0V$
		$8 = 5.0V$

<b>6064/6069</b>	e = 0.1V loudn. on b = 0.7V loudn. c = 0.1V loudn. on
9 = 40 kHz $\pm$ 0.6Hz	
10= 4.8V( SDA)	
11= 4.8V( SCL)	
12= GND.	
13= VC-FM 1.3V-5.8V (87.5MHz-108MHz)	
14= 2.0V	
15= N.C	
16= 8.3V	
<b>6074</b>	e = GND. b = 0.6V loudn. off c = 0.0V loudn. on
<b>6070/6071</b>	c = 0.0V loudn. off 0.1V loudn. on
<b>6075</b>	e = GND. b = 0.7V c = 0.0V
<b>6073</b>	e = GND. b = 0.7V c = 0.0V

$c = 0.0V$  loudn. on  
 $c = 0.0V$  loudn. off  
 $c = 3.3V$  loudn. on

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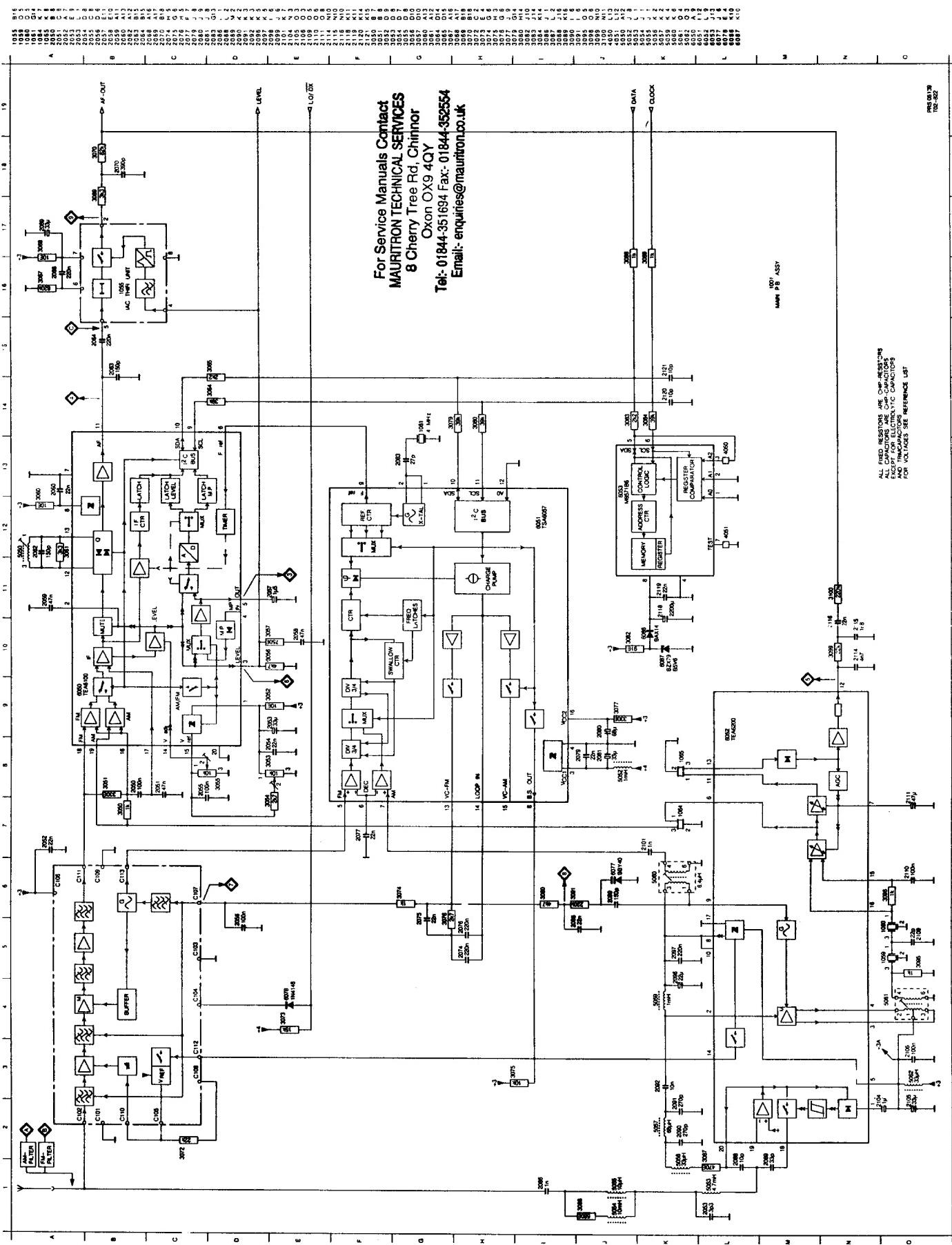
MAURITRON TECHNIQUE

卷之三

Phone: 01844-331834 Email: [anuminnoc@](mailto:anuminnoc@)

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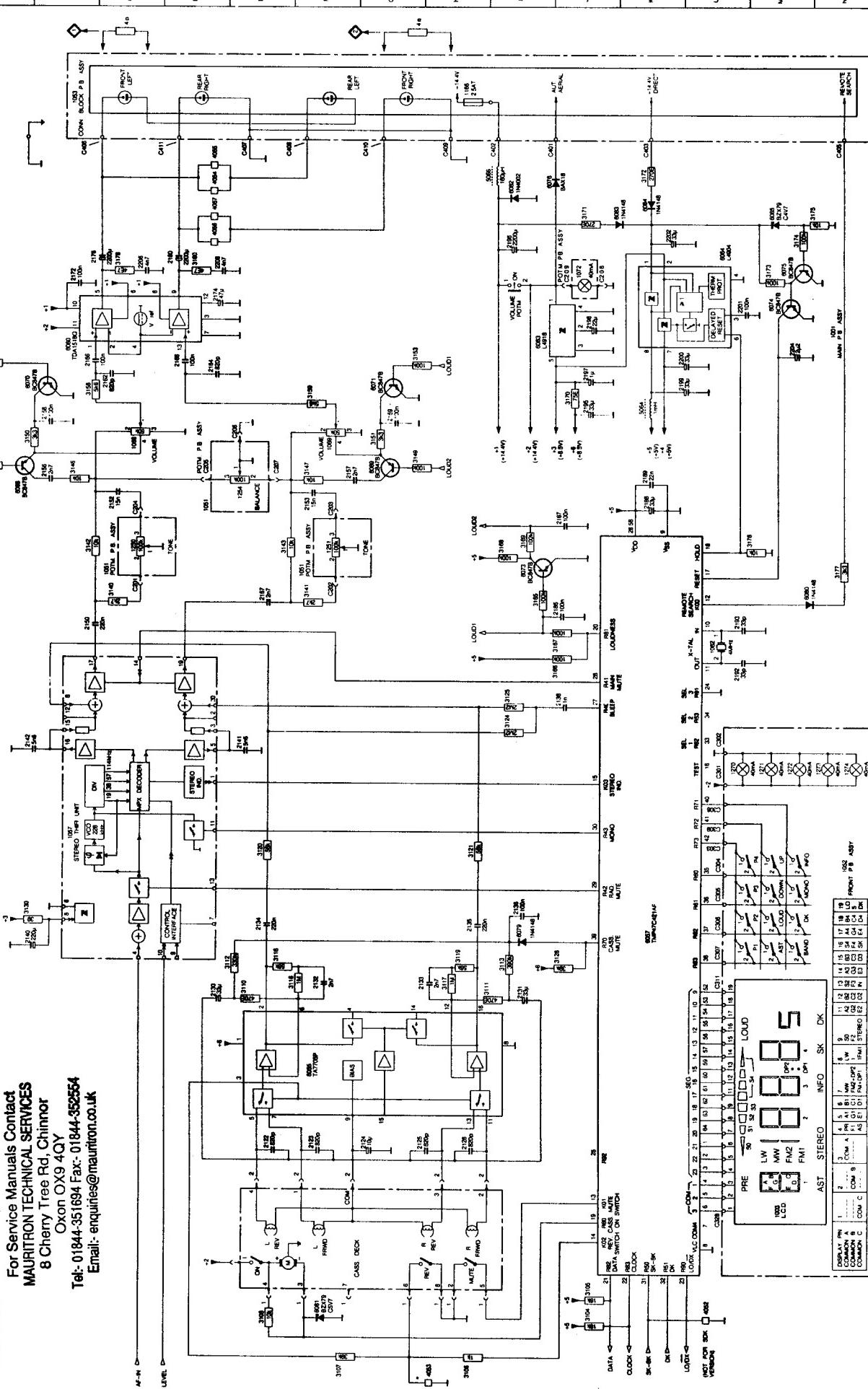


NOT FOR SETS  
WITH AUTOREVERSE

For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**

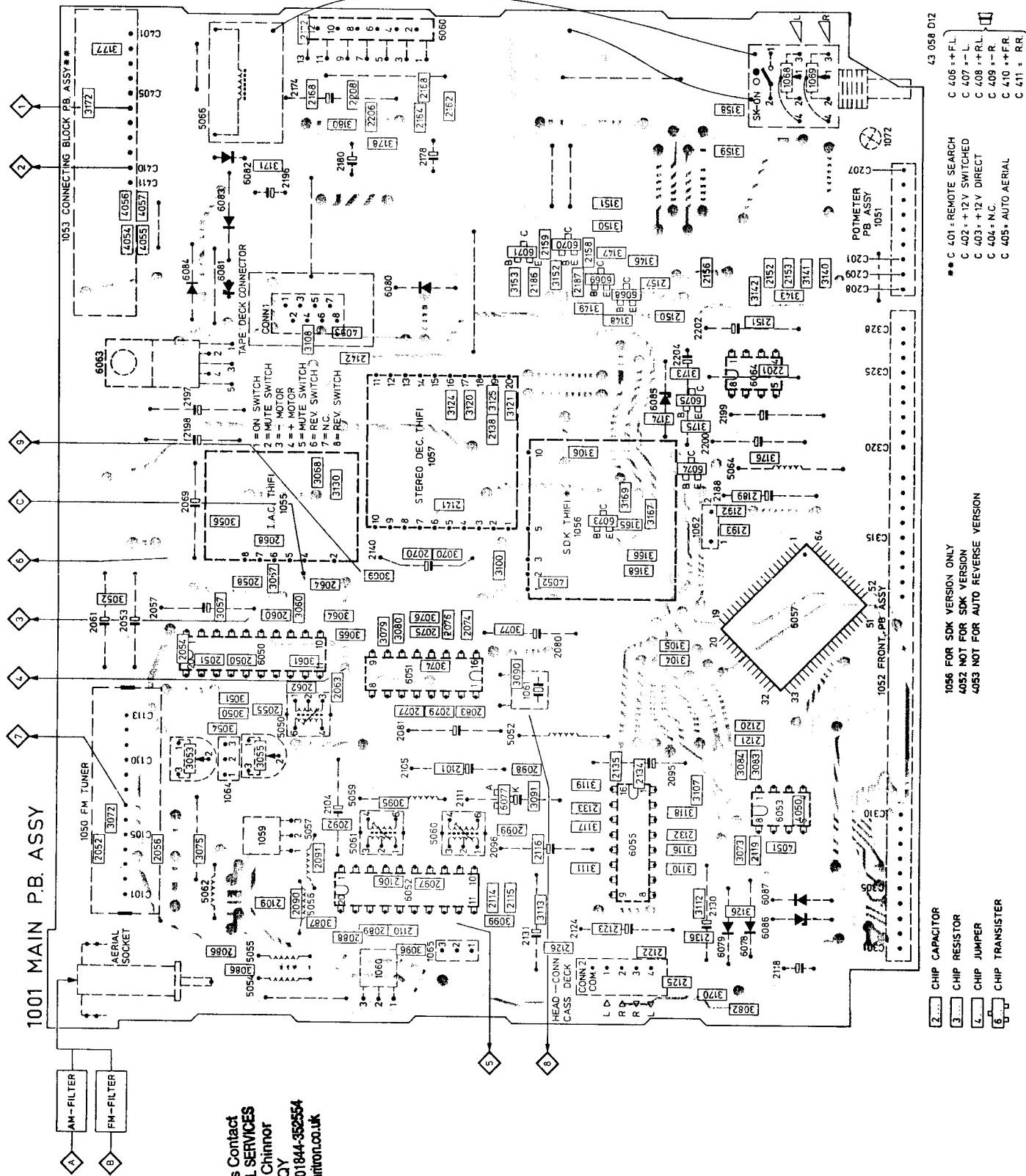
8 Cherry Tree Rd, Chinnor  
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Email:- [enquiries@mauritron.co.uk](mailto:enquiries@mauritron.co.uk)



V	any position
...V FM	position FM
...V AM	position AM
...V >	position play forward
...V <	position play reverse
...V eject	position eject
<b>1050 FM TUNER</b>	
C101= GND.	C107= VC-FM MP-7
C102= -	C108= 1.4V
C103= GND.	C109= GND.
C104= 0.0V	C110= 1.7V
C105= 1.7V	C111= 2.9V
C106= 8.5V	C112= 0.2V
C113= 1.8V	
<b>1055 IAC-THIFI</b>	
1 = N.C	5 = 4.3V
2 = 2.5V	6 = 8.1V
3 = N.C	7 = 8.4V
4 = 4.3V signal	8 = GND.
0.0V no signal	

6032 TEA6200	1 = 6.8V AM	11= 6.8V AM
	2 = 4.0V AM	12= 1.3V MP-5
	3 = 8.5V	13= 4.8V AM
	4 = 8.5V	14= 8.5V AM
	5 = 8.5V	15= 4.8V AM
	6 = 8.5V	16= 4.8V AM
	7 = 0.7V	17= GND.
	8 = 4.0V AM	18= 1.0V AM
	9 = 4.0V AM	19= 1.3V AM
	10= 4.0V AM	20= 3.3V AM
6033 M8571B6	1 = GND.	5 = 4.8V(SDA)
	2 = GND.	6 = 4.8V(SCL)
	3 = GND.	7 = GND.
	4 = GND.	8 = 5.0V.
6035 TA7705P	1 = 8.5V	9 = 2.9V
	2 = 3.3V; 0.0V	10= N.C
	>, eject	11= 2.9V
	5.0V <	
1057 ST.DEC.THIFI	11= 5.0V mono	
	0.2V stereo	
	12= N.C	
	13= 5.0V muted	
	14= 0.0V muted	
	15= 3.5V	
	16= 3.5V	
	17= N.C	
	18= 3.5V	
	19= 3.5V	
	20= 3.5V	
6060 TDA1518Q	4 = N.C	12= 2.9V
	5 = 2.9V	13= 2.9V
	6 = 2.9V	14= N.C
	7 = 2.9V	15= N.C
	8 = GND.	16= 3.3V
6063 L4918	1 = 2.2V	8 = 14.4V
	2 = 2.2V	9 = 6.6V
	3 = GND.	10= 14.4V
	4 = 2.2V	11= 14.4V
	5 = 6.6V	12= 6.6V
	6 = 14.4V	13= 2.2V
	7 = GND.	
6064 L4904	1 = 14.4V	
	2 = 2.6V	
	3 = GND.	
	4 = GND.	
	5 = 8.5V	
6066/6069	5 = N.C	
	1 = 12.7V	
	2 = 8.5V	
	3 = 5.6V	
	4 = GND.	
	0.1V loudn. on	
6071 TSA6057	e = 4 MHz	b = 0.1V loudn. on
	f = 4 MHz	c = 0.1V loudn. on
	g = 4.7V	
	h = GND.	
	i = 1.8V	
	j = 1.8V	
	k = 1.8V	
	l = 1.8V	
	m = 1.8V	
	n = 1.8V	
	o = 1.8V	
	p = 1.8V	
	q = 1.8V	
	r = 1.8V	
	s = 1.8V	
	t = 1.8V	
	u = 1.8V	
	v = 1.8V	
	w = 1.8V	
	x = 1.8V	
	y = 1.8V	
	z = 1.8V	
	a = 1.8V	
	b = 1.8V	
	c = 1.8V	
	d = 1.8V	
	e = 1.8V	
	f = 1.8V	
	g = 1.8V	
	h = 1.8V	
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	a = 1.8V	
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	t = 1.8V	
	u = 1.8V	
	v = 1.8V	
	w = 1.8V	
	x = 1.8V	
	y = 1.8V	
	z = 1.8V	
	a = 1.8V	
	b = 1.8V	
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	s = 1.8V	
	t = 1.8V	
	u = 1.8V	
	v = 1.8V	
	w = 1.8V	
	x = 1.8V	
	y = 1.8V	
	z = 1.8V	
	a = 1.8V	
	b = 1.8V	
	c = 1.8V	
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	g = 1.8V	
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	r = 1.8V	
	s = 1.8V	
	t = 1.8V	
	u = 1.8V	
	v = 1.8V	
	w = 1.8V	
	x = 1.8V	
	y = 1.8V	
	z = 1.8V	
	a = 1.8V	
	b = 1.8V	
	c = 1.8V	
	d = 1.8V	
	e = 1.8V	
	f = 1.8V	
	g = 1.8V	
	h = 1.8V	
	i = 1.8V	
	j = 1.8V	
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	l = 1.8V	
	m = 1.8V	
	n = 1.8V	
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	p = 1.8V	
	q = 1.8V	
	r = 1.8V	
	s = 1.8V	
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	v = 1.8V	
	w = 1.8V	
	x = 1.8V	
	y = 1.8V	
	z = 1.8V	
	a = 1.8V	
	b = 1.8V	
	c = 1.8V	
	d = 1.8V	
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	f = 1.8V	
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	k = 1.8V	
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	v = 1.8V	
	w = 1.8V	
	x = 1.8V	
	y = 1.8V	
	z = 1.8V	
	a = 1.8V	
	b = 1.8V	
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	d = 1.8V	
	e = 1.8V	
	f = 1.8V	
	g = 1.8V	
	h = 1.8V	
	i = 1.8V	
	j = 1.8V	
	k = 1.8V	
	l = 1.8V	
	m = 1.8V	
	n = 1.8V	
	o = 1.8V	
	p = 1.8V	
	q = 1.8V	
	r = 1.8V	
	s = 1.8V	
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	u = 1.8V	
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	w = 1.8V	
	x = 1.8V	
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	z = 1.8V	
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	b = 1.8V	
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	g = 1.8V	
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	r = 1.8V	
	s = 1.8V	
	t = 1.8V	
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	x = 1.8V	
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	h = 1.8V	
	i = 1.8V	
	j = 1.8V	
	k = 1.8V	
	l = 1.8V	
	m = 1.8V	
	n = 1.8V	
	o = 1.8V	
	p = 1.8V	
	q = 1.8V	
	r = 1.8V	
	s = 1.8V	</

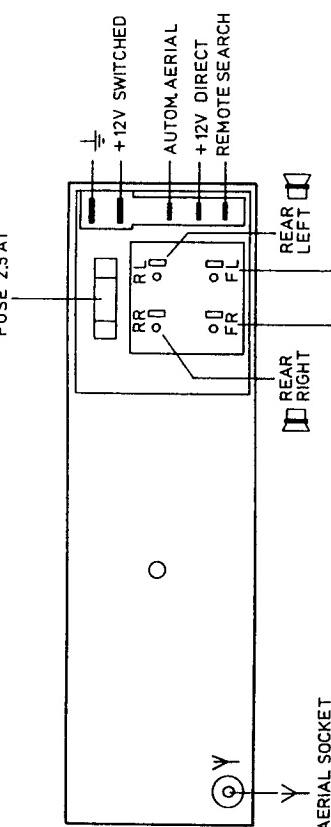


**For Service Manuals Contact**  
**MAURITRON TECHNICAL SERVICES**  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY  
Tel: 01844-351694 Fax: 01844-350554  
Email: [enquiries@mauritron.co.uk](mailto:enquiries@mauritron.co.uk)

## SERVICING HINTS

### SERVICE TEST PROGRAMME

The µC test programme can be called without first entering the security code.



### Working

### ACTIVATING THE SECURITY CODE

Proceed as follows:  
Switch the set on while pressing the UP key.  
Now you hear a two-tone beep and the protection is activated.

The car radio will signal that the code has been activated by briefly showing in the display the character "-C-" at the moment of switching on the radio.

### ENTRY OF THE CODE

Example: Suppose the code is 4567.

Action	Display shows	Note
Switch on	-	-
Press P1	-	-
Select UP/DOWN "4"	-	first figure
Press P1	-	-
Select UP/DOWN "5"	-	second figure
Press P1	-	-
Select UP/DOWN "6"	-	third figure
Press P1	-	-
Select UP/DOWN "7"	-	fourth figure
Press P1	....	confirmation tone

The radio is now on and you can operate the cassette player.

Now that the security code is active, the code should be entered again each time the supply voltage has been interrupted.

To indicate that the security code is activated, the display briefly shows the character "-C" each time the set is turned on.

### SWITCHING THE CODE OFF

Switch the set on while pressing the UP key. The display shows the indication "-C-". Enter the right code in the way described above. Two two-tone squeaks confirm that the security code is switched off.



All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce service life drastically. When repairing, make sure that you are connected to the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

### TECHNICAL DATA

#### General

Power supply : 14.4V DC  
Dimensions(whxhd) : 180x51x150 mm  
Remote control unit : 22EN9875

#### Radio

LW : 144-288 kHz  
MW : 522-1611 kHz  
FM : 87.5-108 MHz  
IF-AM : 10.7 MHz  
IF-FM : 10.7 MHz  
Sensitivity 26 dB S/R : 160 µV (LW)  
: 110 µV (MW)  
: 4 µV (FM)  
Limitation α-3dB : 15 µV  
10 dB crosstalk : 150 µV

#### Cassette player

Number of tracks : 2x2  
Tape speed : 4.76 cm/sec  
Wow & Flutter : ≥ 0.35 %  
Cross talk : ≤ 30 dB

#### Amplifier

Output power (D ≤ 10%) : 2x5.2W ± 1 dB@4Ω  
Loudness : 7 dB at 100 Hz  
: 6 dB at 10 kHz  
Tone control : -9 dB at 100 Hz  
: -14dB at 10 kHz

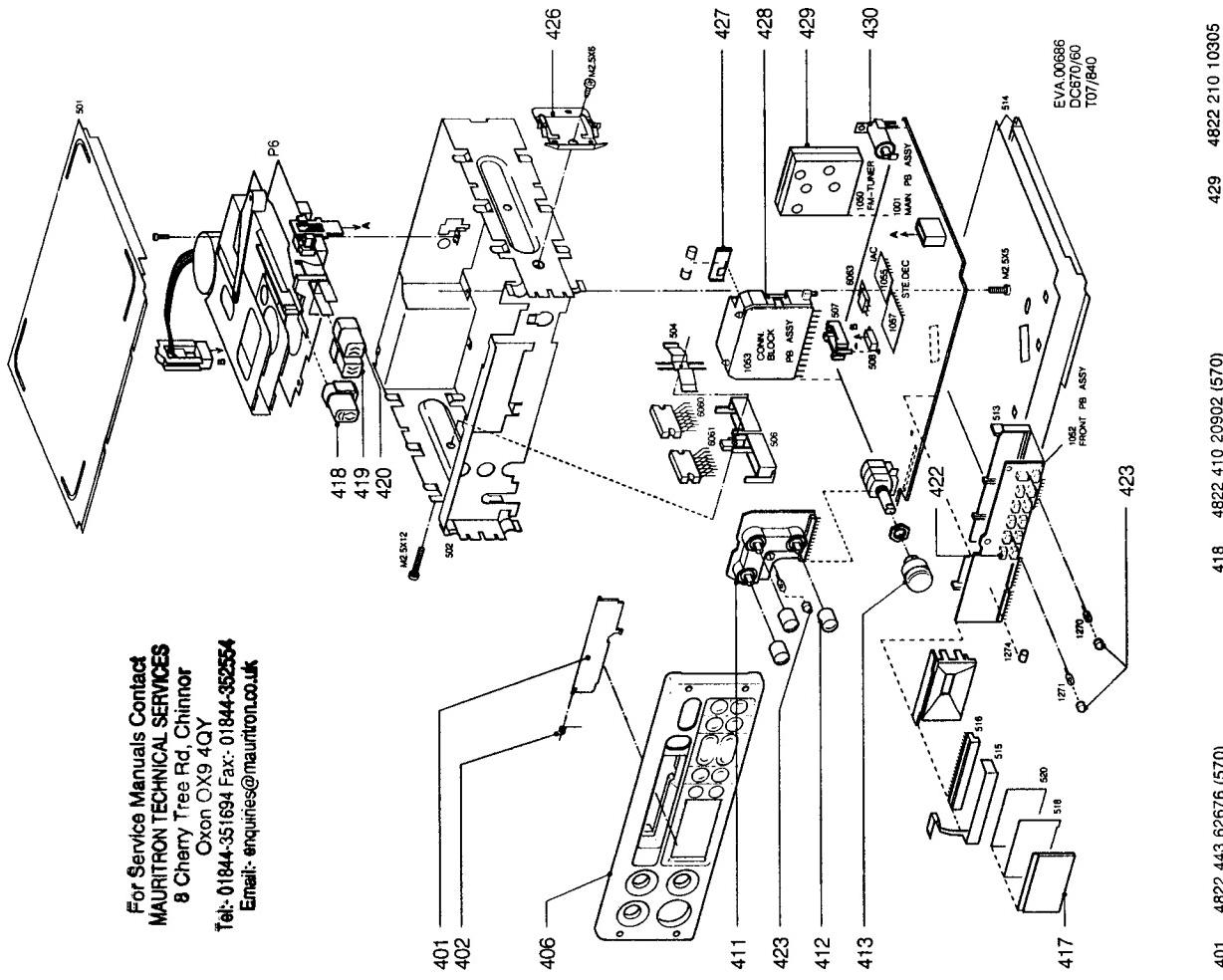
**For Service Manuals Contact**  
**MAURITRON TECHNICAL SERVICES**  
**8 Cherry Tree Rd, Chinnor**  
**Oxon OX9 4QY**  
**Tel: 01844-351684 Fax: 01844-352554**  
**Email: enquiries@mauritron.co.uk**



checking and adjusting see general procedures

Check	SK	—	—	Setting of controls	
FM-Mute	FM	93 MHz, 1 mV no signal	◊ B	—	◊ 0dB (775 mV) -30dB ≈ ◊ ≤ -40dB
26dB-SNR	FM	93 MHz, 4 µV $\Delta f = 22.5 \text{ kHz}$ $f \text{ mod} = 1 \text{ kHz}$	◊ B	—	◊ 0dB (775 mV)
	MW	93MHz, 4µV without mod.	◊ A	—	◊ 1 ≥ 26dB
	MW	990 kHz, 110 µV 1 kHz, 30% AM	◊ A	—	◊ 0dB (775 mV)
		990kHz, 110 µV without mod.	◊ A	—	◊ 1 ≥ 26dB
Demodulated FM-levels	FM	93MHz, 1mV $\Delta f = 22.5 \text{ kHz}$ $f \text{ mod} = 1 \text{ kHz}$	◊ B	—	◊ 200 mV ± 1dB
		93 MHz, 1 mV $\Delta f = 6.75 \text{ kHz}$ $f \text{ mod.} = 1 \text{ kHz}$	◊ A	—	◊ 50 mV ± 1dB
Demodulated FM level	FM	93 MHz, 1 mV $\Delta f = 3.75 \text{ kHz}$ $f \text{ mod.} = 57 \text{ kHz}$	◊ B	—	◊ 20 mV ± 1 dB
Demodulated AM-level	MW	990 kHz, 1 mV 1kHz, 30% AM	◊ A	—	◊ 350 mV ± 1dB
Cross talk	FM	93 MHz, 1 mV stereo signal	◊ B	—	L ◊ 0dB (775 mV) R ◊ 2
		93 MHz, 1 mV stereo-R	◊ B	—	R ◊ - ◊ ≥ 21dB
SDS/10dB Cross talk	FM	93 MHz, 1 mV stereo signal	◊ B	—	L ◊ 0dB (775 mV) R ◊ 2
		93 MHz, 150 µV stereo-R	◊ B	—	R ◊ - L ◊ = 10dB
Search level FM	FM	93 MHz, 25µAV	◊ B	—	◊ 2 V-DC
Search level AM	MW	990 kHz, 70µAV	◊ A	—	◊ 1.75 V-DC
V-C-FM	FM	87.5 MHz	◊ A	—	◊ 1.0 V-DC
		108 MHz	◊ A	—	◊ 6.0 V-DC
V-C-AM	LW	144 kHz	◊ B	—	◊ 0.8 V-DC
	MW	1611 kHz	◊ B	—	◊ 6.0 V-DC
I.A.C.	FM		◊ C	—	◊ 25-50 µs

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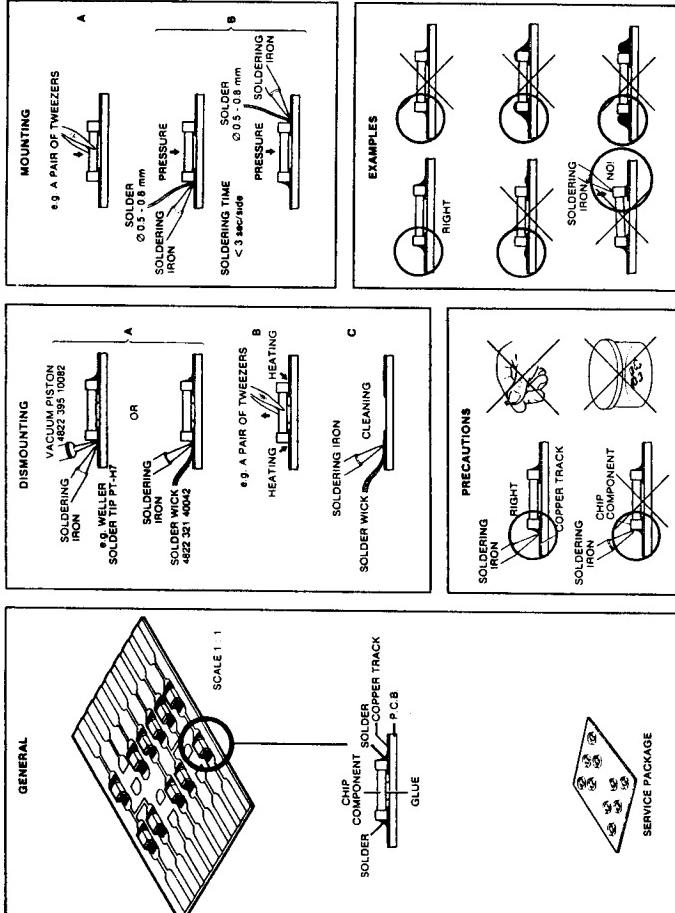


\* incl. items 401, 402

- MISCELLANEOUS -		-  -	-  -	-  -	-  -	-  -	-  -
1055	IAC-Thifi	4822 214 51676	2166	100nF	20%	50V	4822 122 33104
1057	STEREO DEC. Thifi	4822 214 51677	2168	100nF	20%	50V	4822 122 33104
1059	Cer Filter 10.7 MHz	4822 242 72076	2172	100nF	20%	50V	4822 122 33104
1060	Cer.Filter 10.7 MHz	4822 242 72076	2178	2200μF	20%	10V	4822 124 41452
1061	Crystal 4 MHz	4822 242 71881	2180	2200μF	10V	4822 124 41452	3120
1062	Crystal 4 MHz	4822 242 71882	2186	100nF	20%	50V	4822 122 33104
1064	Cer.Filter 10.7 MHz	4822 242 71883	2187	100nF	20%	50V	4822 122 33104
1065	Cer.Filter 10.7 MHz	4822 242 71883	2192	33 pF	50V	4822 122 33215	3125
1068	Potm. Volume 2x50kΩ	4822 101 40145	2193	33 pF	50V	4822 122 33215	3126
1166	Fuse 2.5A(T)	4822 253 30026	2196	2200μF	20%	16V	4822 124 22442
1250/1251	Potm.Tone 2x100kΩ	4822 102 30462	2201	2.2μF	20%	50V	4822 122 33104
1254	Potm.Balance 100kΩ	4822 100 20663	2204	2.2μF	50V	4822 124 20706	3141
	Lamp 14V-40mA	4822 134 40867	2206	4.7nF	50V	4822 122 33217	3142
	Lamp 14V orange	4822 134 40921	2208	4.7nF	50V	4822 122 33217	3143
						4822 111 91498	3146
						4822 111 91498	3147
						4822 111 91498	3148
						4822 111 91518	3149
						4822 111 91518	3150
						4822 111 91526	3151
						4822 111 91526	3152
						4822 111 91518	3153
						4822 100 20166	3154
						4822 111 91518	3155
						4822 111 91525	3156
						4822 111 91525	3157
						4822 111 91534	3158
						4822 111 91534	3159
						4822 111 91534	3160
						4822 111 91534	3161
						4822 111 91534	3162
						4822 111 91506	3163
						4822 111 91518	3164
						4822 111 91518	3165
						4822 111 91518	3166
						4822 111 91518	3167
						4822 111 91518	3168
						4822 111 91518	3169
						4822 111 91518	3170
						4822 111 91519	3171
						4822 111 91527	3172
						4822 111 91507	3173
						4822 111 91523	3174
						4822 111 91498	3175
						4822 111 91516	3176
						4822 111 91517	3177
						4822 111 91504	3178
						4822 111 91504	3179
						4822 111 91501	3180
						4822 111 91528	3181
						4822 111 91528	3182
						4822 111 91508	3204
						4822 111 91522	4050
						4822 111 91522	4051
						4822 111 91536	4052

- MISCELLANEOUS -		-  -	-  -	-  -	-  -	-  -	-  -
3117	1M	4822 111 91509	5050	56k	4822 111 91535	5052	4822 111 91535
3118	56k	4822 111 91535	5054	56k	4822 111 91535	5055	4822 111 91535
3119	56k	4822 111 91535	5056	56k	4822 111 91535	5056	4822 111 91535
3120	56k	4822 111 91535	5057	2M2	4822 111 91511	5057	4822 111 91511
3121	56k	4822 111 91511	5058	3M2	4822 111 91511	5059	4822 111 91511
3124	56k	4822 111 91511	5059	39k	4822 111 91528	5060	4822 111 91528
3125	56k	4822 111 91528	5061	39k	4822 111 91502	5061	4822 111 91502
3130	56k	4822 111 91502	5062	39k	4822 111 91525	5062	4822 111 91525
3140	2k7	4822 111 91525	5063	10k	4822 111 91525	5064	4822 111 91525
3141	2k7	4822 111 91525	5065	10k	4822 111 91517	5066	4822 111 91517
3146	15k	4822 111 91498	5067	15k	4822 111 91498	5068	4822 111 91498
3147	15k	4822 111 91498	5069	100k	4822 111 91518	5070	4822 111 91518
3148	100k	4822 111 91518	5071	3k3	4822 111 91518	5072	4822 111 91518
3149	100k	4822 111 91518	5073	3k3	4822 111 91526	5074	4822 111 91526
3150	100k	4822 111 91526	5075	100k	4822 111 91526	5076	4822 111 91526
3151	100k	4822 111 91526	5077	100k	4822 111 91518	5078	4822 111 91518
3152	100k	4822 111 91518	5079	100k	4822 111 91518	5080	4822 111 91518
3153	100k	4822 100 20166	5081	100k	4822 111 91518	5082	4822 111 91518
3154	100k	4822 100 20166	5083	100k	4822 111 91518	5084	4822 111 91518
3155	100k	4822 111 91518	5085	100k	4822 111 91518	5086	4822 111 91518
3156	100k	4822 111 91518	5087	100k	4822 111 91518	5088	4822 111 91518
3157	100k	4822 111 91518	5089	100k	4822 111 91518	5090	4822 111 91518
3158	100k	4822 111 91518	5091	100k	4822 111 91518	5092	4822 111 91518
3159	100k	4822 111 91518	5093	100k	4822 111 91518	5094	4822 111 91518
3160	100k	4822 111 91518	5095	100k	4822 111 91518	5096	4822 111 91518
3161	100k	4822 111 91518	5097	100k	4822 111 91518	5098	4822 111 91518
3162	100k	4822 111 91518	5099	100k	4822 111 91518	5100	4822 111 91518
3163	100k	4822 111 91518	5101	100k	4822 111 91518	5102	4822 111 91518
3164	100k	4822 111 91518	5103	100k	4822 111 91518	5104	4822 111 91518
3165	100k	4822 111 91518	5105	100k	4822 111 91518	5106	4822 111 91518
3166	100k	4822 111 91518	5107	100k	4822 111 91518	5108	4822 111 91518
3167	100k	4822 111 91518	5109	100k	4822 111 91518	5110	4822 111 91518
3168	100k	4822 111 91518	5111	100k	4822 111 91518	5112	4822 111 91518
3169	100k	4822 111 91518	5113	100k	4822 111 91518	5114	4822 111 91518
3170	100k	4822 111 91518	5115	100k	4822 111 91518	5116	4822 111 91518
3171	270E	4822 111 91518	5117	270E	4822 111 91518	5118	4822 111 91518
3172	270E	4822 111 91518	5119	270E	4822 111 91518	5120	4822 111 91518
3173	100k	4822 111 91518	5121	100k	4822 111 91518	5122	4822 111 91518
3174	100k	4822 111 91518	5123	100k	4822 111 91518	5124	4822 111 91518
3175	10k	4822 111 91518	5125	10k	4822 111 91518	5126	4822 111 91518
3176	10k	4822 111 91518	5127	10k	4822 111 91518	5128	4822 111 91518
3177	680E	4822 111 91518	5129	680E	4822 111 91518	5130	4822 111 91518
3178	4E7	4822 111 91518	5131	4E7	4822 111 91518	5132	4822 111 91518
3179	4E7	4822 111 91518	5133	4E7	4822 111 91518	5134	4822 111 91518
3180	4E7	4822 111 91518	5135	4E7	4822 111 91518	5136	4822 111 91518
3181	22K	4822 111 91508	5137	22K	4822 111 91508	5138	4822 111 91508
3182	22K	4822 111 91508	5139	22K	4822 111 91508	5140	4822 111 91508
3183	2k2	4822 111 91519	5141	2k2	4822 111 91519	5142	4822 111 91519
3184	39k	4822 111 91519	5143	39k	4822 111 91519	5144	4822 111 91519
3185	39k	4822 111 91519	5145	39k	4822 111 91519	5146	4822 111 91519
3186	560E	4822 111 91519	5147	560E	4822 111 91519	5148	4822 111 91519
3187	470E	4822 111 91519	5149	470E	4822 111 91519	5150	4822 111 91519
3188	309k	4822 111 91519	5151	309k	4822 111 91519	5152	4822 111 91519
3189	309k	4822 111 91519	5153	309k	4822 111 91519	5154	4822 111 91519
3190	309k	4822 111 91519	5155	309k	4822 111 91519	5156	4822 111 91519
3191	309k	4822 111 91519	5157	309k	4822 111 91519	5158	4822 111 91519
3192	309k	4822 111 91519	5159	309k	4822 111 91519	5160	4822 111 91519
3193	309k	4822 111 91519	5161	309k	4822 111 91519	5162	4822 111 91519
3194	220nF	4822 111 91519	5163	220nF	4822 111 91519	5164	4822 111 91519
3195	220nF	4822 111 91519	5165	220nF	4822 111 91519	5166	4822 111 91519
3196	10V	4822 111 91519	5167	10V	4822 111 91519	5168	4822 111 91519
3197	50V	4822 111 91519	5169	50V	4822 111 91519	5170	4822 111 91519
3198	3079	4822 111 91519	5171	3079	4822 111 91519	5172	4822 111 91519
3199	220k	4822 111 91519	5173	220k	4822 111 91519	5174	4822 111 91519
3200	3084	4822 111 91519	5175	3084	4822 111 91519	5176	4822 111 91519
3201	3086	4822 111 91519	5177	3086	4822 111 91519	5178	4822 111 91519
3202	3087	4822 111 91519					

④-  - Chips 50 V NP0 S1206		④-  - Chips 0.125 W S1206		④-  - Chips 0.125 W S1206	
1 PF	5%	4822 122 32479	4.7 E	6.8 k	2%
1.2 PF	5%	4822 122 33013	5.1 E	7.5 k	2%
1.5 PF	5%	4822 122 33192	5.6 E	8.2 k	2%
1.8 PF	5%	4822 122 32087	6.2 E	9.1 k	2%
2.2 PF	5%	4822 122 32425	6.8 E	10 k	2%
3.3 PF	5%	4822 122 32079	7.5 E	11 k	2%
3.9 PF	5%	4822 122 32081	8.2 E	12 k	2%
4.7 PF	5%	4822 122 32082	9.1 E	13 k	2%
5.6 PF	5%	4822 122 32506	10 E	15 k	2%
6.8 PF	5%	4822 122 32507	11 E	16 k	2%
8.2 PF	5%	4822 122 32083	12 E	18 k	2%
10 PF	5%	4822 122 31971	13 E	20 k	2%
12 PF	5%	4822 122 32139	15 E	22 k	2%
15 PF	5%	4822 122 32504	16 E	24 k	2%
18 PF	5%	4822 122 31759	18 E	27 k	2%
22 PF	10%	4822 122 31837	20 E	30 k	2%
27 PF	5%	4822 122 31986	22 E	33 k	2%
33 PF	5%	4822 122 32083	24 E	36 k	2%
39 PF	5%	4822 122 31756	27 E	39 k	2%
47 PF	5%	4822 122 31772	30 E	43 k	2%
56 PF	5%	4822 122 31774	33 E	47 k	2%
68 PF	5%	4822 122 31961	36 E	51 k	2%
82 PF	10%	4822 122 31839	39 E	56 k	2%
100 PF	5%	4822 122 31765	43 E	62 k	2%
120 PF	5%	4822 122 31766	47 E	68 k	2%
150 PF	5%	4822 122 31767	51 E	75 k	2%
180 PF	2%	4822 122 31774	56 E	82 k	2%
220 PF	5%	4822 122 31965	62 E	91 k	2%
270 PF	5%	4822 122 32142	68 E	100 k	2%
330 PF	10%	4822 122 31967	75 E	110 k	2%
390 PF	5%	4822 122 31771	82 E	120 k	2%
470 PF	5%	4822 122 31727	91 E	130 k	2%
560 PF	5%	4822 122 31773	100 E	150 k	2%
680 PF	5%	4822 122 31775	110 E	160 k	2%
820 PF	5%	4822 122 31974	120 E	180 k	2%
1 nF	10%	5322 122 31642	130 E	200 k	2%
330 nF	10%	5322 122 31647	130 E	200 k	2%
1.2 nF	5%	4822 122 31807	150 E	220 k	2%
1.5 nF	10%	4822 122 31781	160 E	240 k	2%
1.8 nF	10%	4822 122 32153	180 E	270 k	2%
2.2 nF	10%	4822 122 31644	200 E	300 k	2%
2.7 nF	10%	4822 122 31783	220 E	330 k	2%
3.3 nF	10%	4822 122 31969	240 E	360 k	2%
3.9 nF	10%	4822 122 32566	270 E	390 k	2%
4.7 nF	10%	4822 122 31784	300 E	420 k	2%
5.6 nF	10%	4822 122 31916	330 E	450 k	2%
6.8 nF	10%	4822 122 31767	360 E	470 k	2%
10 nF	10%	4822 122 31728	360 E	510 k	2%
12 nF	10%	5322 122 31648	380 E	560 k	2%
15 nF	10%	4822 122 31782	430 E	620 k	2%
18 nF	10%	4822 122 31759	470 E	680 k	2%
22 nF	10%	4822 122 31797	510 E	750 k	2%
27 nF	10%	4822 122 32541	560 E	820 k	2%
33 nF	10%	4822 122 31981	620 E	880 k	2%
47 fF	10%	4822 122 32542	680 E	950 k	2%
56 nF	10%	4822 122 32183	750 E	1 M	5%
100 nF	10%	4822 122 31947	820 E	1.2 M	5%
160 nF	10%	4822 122 32915	910 E	1.3 M	5%
220 nF	20%	4822 122 32715	1 k	1.5 M	5%
0 E	Jumper		4822 111 90163	1.1 M	5%
1 E	5%	4822 111 90184	1.2 k	1.8 M	5%
1.2 E	5%	4822 111 90378	1.3 E	2.2 M	5%
1.3 E	5%	4822 111 90379	1.4 E	2.2 k	5%
1.5 E	5%	4822 111 90381	2.4 k	3.6 M	5%
1.6 E	5%	4822 111 90382	2.7 k	4.3 M	5%
1.8 E	5%	4822 111 90383	3.3 k	4.7 M	5%
2 E	5%	4822 111 90384	3.3 k	5.1 M	5%
2.2 E	5%	5322 111 90104	3.6 k	5.6 M	5%
2.4 E	5%	4822 111 90385	3.9 k	6.2 M	5%
2.7 E	5%	4822 111 90386	4.3 k	6.8 M	5%
3 E	5%	4822 111 90387	4.7 k	7.5 M	5%
3.3 E	5%	4822 111 90388	5.1 k	8.2 M	5%
3.6 E	5%	4822 111 90389	5.6 k	9.1 M	5%
3.9 E	5%	4822 111 90391	6.2 k	10 M	5%
4.3 E	5%	4822 111 90392			



④-  - Chips 0.125 W S1206 NPO		④-  - Chips 0.125 W S1206	
△Δ*	Ceramic plate Tuning ≤ 120 pF NP.0	2%	20/+80%
●●*	Polyester flat foil	10%	
□*	Metallized polyester flat film	10%	
○□*	Polyester flat foil small size (Mylar)	10%	
○△*	Polyester film/foil	1%	
○○*	Subminiature tantalum	± 20%	
○*	Miniature single		
○○*	Subminiature tantalum		

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